Title (en)

Female electrical terminal with improved contact force.

Title (de)

Elektrische Kontaktbüchse mit verbesserter Kontaktkraft.

Title (fr)

Borne électrique femelle avec force de contact améliorée.

Publication

EP 0549958 A2 19930707 (EN)

Application

EP 92121421 A 19921217

Priority

US 81413091 A 19911230

Abstract (en)

A female electrical terminal (14) is disclosed for mating with a male electrical terminal (16). The female terminal includes a forward mating end (80,82) for receiving the male terminal along a front-to-rear axis (90) and a rear terminating end (60) for connection to another electrical element. The forward mating end includes two pair of spring contact arms (80,82) each having a dimple (88,92) projecting transversely of the axis for engaging the male terminal. The dimple (88) on one pair of spring contact arms (80) is offset axially of the dimple (92) on the other pair of spring contact arms (82) to reduce the insertion force on the male terminal. Reinforcing ribs (100,102) extend axially on the spring contact arms. The distances between the reinforcing ribs and the dimples on the respective spring contact arms are substantially equal whereby the normal force on the male terminal by each dimple is substantially equal. <IMAGE>

IPC 1-7

H01R 13/11

IPC 8 full level

H01R 13/11 (2006.01); **H01R 13/115** (2006.01); H01R 13/627 (2006.01)

CPC (source: EP KR US)

H01R 13/112 (2013.01 - EP US); **H01R 13/113** (2013.01 - EP US); **H01R 25/00** (2013.01 - KR); H01R 13/627 (2013.01 - EP US)

Cited by

CN102683920A; FR2775130A1; US8657634B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 5145422 A 19920908; DE 69217888 D1 19970410; DE 69217888 T2 19970911; EP 0549958 A2 19930707; EP 0549958 A3 19940126; EP 0549958 B1 19970305; JP 2617157 B2 19970604; JP H05275135 A 19931022; KR 930015194 A 19930724

DOCDB simple family (application)

US 81413091 A 19911230; DE 69217888 T 19920217; EP 92121421 A 19921217; JP 35680792 A 19921222; KR 920025985 A 19921229